

Pragmatic Unit Testing In C

Andy Hunt (author)

ISBN 0-201-71089-7 Pragmatic Version Control Using CVS, David Thomas and Andy Hunt, 2003, The Pragmatic Bookshelf, ISBN 0-9745140-0-4 Pragmatic Unit Testing in Java

Andy Hunt (sometimes credited as Andrew Hunt) is an author on software development. Hunt co-authored The Pragmatic Programmer, ten other books and many articles, and was one of the 17 original authors of the Agile Manifesto. He and partner Dave Thomas founded the Pragmatic Bookshelf series of books for software developers. He also plays the trumpet, flugel horn, and keyboards and produces music at Strange & Special Air Productions.

Dave Thomas (programmer)

2003, The Pragmatic Bookshelf, ISBN 0-9745140-1-2 Pragmatic Unit Testing in C# with Nunit, Andrew Hunt and David Thomas, 2004, The Pragmatic Bookshelf

Dave Thomas (born 1960) is a computer programmer, author and editor. He has written about Ruby and together with Andy Hunt, he co-authored The Pragmatic Programmer and runs The Pragmatic Bookshelf publishing company. Thomas moved to the United States from England in 1994 and lives north of Dallas, Texas.

Thomas coined the phrases 'Code Kata' and 'DRY' (Don't Repeat Yourself), and was an original signatory and author of The Manifesto for Agile Software Development. He studied computer science at Imperial College London.

Software testing

focus of a test. Unit testing, a.k.a. component or module testing, is a form of software testing by which isolated source code is tested to validate

Software testing is the act of checking whether software satisfies expectations.

Software testing can provide objective, independent information about the quality of software and the risk of its failure to a user or sponsor.

Software testing can determine the correctness of software for specific scenarios but cannot determine correctness for all scenarios. It cannot find all bugs.

Based on the criteria for measuring correctness from an oracle, software testing employs principles and mechanisms that might recognize a problem. Examples of oracles include specifications, contracts, comparable products, past versions of the same product, inferences about intended or expected purpose, user or customer expectations, relevant standards, and applicable laws.

Software testing is often dynamic in nature; running the software to verify actual output matches expected. It can also be static in nature; reviewing code and its associated documentation.

Software testing is often used to answer the question: Does the software do what it is supposed to do and what it needs to do?

Information learned from software testing may be used to improve the process by which software is developed.

Software testing should follow a "pyramid" approach wherein most of your tests should be unit tests, followed by integration tests and finally end-to-end (e2e) tests should have the lowest proportion.

NUnit

2008-04-15. Hunt, Andrew; Thomas, David (2007). *Pragmatic Unit Testing in C# with NUnit, 2nd Ed. The Pragmatic Bookshelf (Raleigh), 2007. ISBN 0-9776166-7-3*

NUnit is an open-source unit testing framework for the .NET Framework and Mono. It serves the same purpose as JUnit does in the Java world, and is one of many programs in the xUnit family.

Acceptance test-driven development

them in combination with other test types, e.g. lower level Unit tests, Cross-functional testing including usability testing, exploratory testing, and

Acceptance test-driven development (ATDD) is a development methodology based on communication between the business customers, the developers, and the testers. ATDD encompasses many of the same practices as specification by example (SBE), behavior-driven development (BDD), example-driven development (EDD), and support-driven development also called story test-driven development (SDD). All these processes aid developers and testers in understanding the customer's needs prior to implementation and allow customers to be able to converse in their own domain language.

ATDD is closely related to test-driven development (TDD). It differs by the emphasis on developer-tester-business customer collaboration. ATDD encompasses acceptance testing, but highlights writing acceptance tests before developers begin coding.

Statistical hypothesis test

scientists. Hypothesis testing provides a means of finding test statistics used in significance testing. The concept of power is useful in explaining the consequences

A statistical hypothesis test is a method of statistical inference used to decide whether the data provide sufficient evidence to reject a particular hypothesis. A statistical hypothesis test typically involves a calculation of a test statistic. Then a decision is made, either by comparing the test statistic to a critical value or equivalently by evaluating a p-value computed from the test statistic. Roughly 100 specialized statistical tests are in use and noteworthy.

Agile software development

cross-functional team working in all functions: planning, analysis, design, coding, unit testing, and acceptance testing. At the end of the iteration a

Agile software development is an umbrella term for approaches to developing software that reflect the values and principles agreed upon by The Agile Alliance, a group of 17 software practitioners, in 2001. As documented in their Manifesto for Agile Software Development the practitioners value:

Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a plan

The practitioners cite inspiration from new practices at the time including extreme programming, scrum, dynamic systems development method, adaptive software development, and being sympathetic to the need for an alternative to documentation-driven, heavyweight software development processes.

Many software development practices emerged from the agile mindset. These agile-based practices, sometimes called Agile (with a capital A), include requirements, discovery, and solutions improvement through the collaborative effort of self-organizing and cross-functional teams with their customer(s)/end user(s).

While there is much anecdotal evidence that the agile mindset and agile-based practices improve the software development process, the empirical evidence is limited and less than conclusive.

Inquiry

induction is used to test the sum of the predictions against the sum of the data. It needs to be observed that the classical and pragmatic treatments of the

An inquiry (also spelled as enquiry in British English) is any process that has the aim of augmenting knowledge, resolving doubt, or solving a problem. A theory of inquiry is an account of the various types of inquiry and a treatment of the ways that each type of inquiry achieves its aim.

POCO C++ Libraries

consistent style and unit testing, POCO is highly portable, and already ported to a variety of different platforms. As of 2017[update], POCO C++ Libraries are

The Portable Components (POCO) C++ Libraries are computer software, a set of class libraries for developing computer network-centric, portable applications in the programming language C++. The libraries cover functions such as threads, thread synchronizing, file system access, streams, shared libraries and class loading, Internet sockets, and network communications protocols (HTTP, FTP, SMTP, etc.), and include an HTTP server, and an XML parser with SAX2 and DOM interfaces and SQL database access. The modular and efficient design and implementation makes the libraries well suited for embedded system development.

The libraries are free and open-source software distributed under the Boost Software License 1.0.

Software regression

software. These tests can include unit tests to catch local regressions as well as integration tests to catch remote regressions. Regression testing techniques

A software regression is a type of software bug where a feature that has worked before stops working. This may happen after changes are applied to the software's source code, including the addition of new features and bug fixes. They may also be introduced by changes to the environment in which the software is running, such as system upgrades, system patching or a change to daylight saving time. A software performance regression is a situation where the software still functions correctly, but performs more slowly or uses more memory or resources than before. Various types of software regressions have been identified in practice, including the following:

Local – a change introduces a new bug in the changed module or component.

Remote – a change in one part of the software breaks functionality in another module or component.

Unmasked – a change unmasks an already existing bug that had no effect before the change.

Regressions are often caused by encompassed bug fixes included in software patches. One approach to avoiding this kind of problem is regression testing. A properly designed test plan aims at preventing this possibility before releasing any software. Automated testing and well-written test cases can reduce the likelihood of a regression.

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